ECE322L -Homework 9 (100 points) Assigned on Thursday, 04/09/2020-11 am Due on Thursday, 04/23/2020-11 am

Consider the circuit below. The transistor parameters are: β =120, $V_{BE(on)}$ =0.7 V, V_A = ∞ . The circuit parameters are V_{CC} = V_{EE} =3.3 V, R_S =500 Ω , R_L = 6 k Ω , R_B =100 k Ω , R_E =12 k Ω , R_C =12 k Ω .

- (a) Calculate the average power dissipated in the transistor and R_C , for $v_s=0$.
- (b) Determine the maximum undistorted signal power that can be delivered to R $_{\text{L}}$, and the resulting average power dissipated in the transistor and R $_{\text{C}}$.

